

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) ~~A~~ An image processing method of inputting image data with registration signals embedded therein, subjected to geometric transformation, and detecting registration signals from said inputted image data to perform registration processing, comprising:

~~a registration signal detecting step of detecting, with a programmed processor of a computing device, one or more registration signals from [[said]] image data, wherein the image data includes comprising electronic signals, and wherein in a memory and the detecting includes including processing the electronic signals in the memory to detect the one or more registration signals in the electronic signals;~~

~~a frequency property determining step of determining, with the a programmed processor of the computing device, one or more frequency properties of the [[said]] image data;~~

~~a geometric transformation identifying step of identifying, with the a programmed processor of the computing device, a geometric transformation to which the [[said]] image data is subjected, using said based at least in part on the one or more detected registration signals and the one or more frequency properties determination results of said determination in the frequency property determining step; and~~

~~a geometric transforming step of using the [[said]] identified geometric transformation to compute registered image data.~~

2. (Currently Amended) ~~The image processing method according to claim 1, further comprising: a frequency transforming step of transforming the [[said]] image data into frequency components.~~

3. (Currently Amended) The ~~image processing method~~ according to claim 1, wherein the determining is based at least in part on one or more in-said frequency property determining step, determination is made using frequency components of the ~~the~~ [[said]] image data.

4. (Currently Amended) The ~~image processing method~~ according to claim 1, further comprising:

performing a wherein in-said frequency transforming step, Fourier transformation on at least a portion of the image data; and is performed, and conversion

converting one or more frequency components of the image data into amplitude spectra of said frequency components is made.

5. (Currently Amended) The ~~image processing method~~ according to claim 1, further comprising:

a block dividing step of dividing the ~~the~~ [[said]] image data into at least one block a plurality of blocks; and

a block synthesizing step of combining the plurality of blocks divided by said block dividing step to reconstruct an ~~an~~ [[the]] image corresponding to the image data.

6. (Currently Amended) The ~~image processing method~~ according to claim 1, wherein the ~~the~~ [[said]] geometric transformation comprises ~~comprises~~ [[is]] scaling.

7. (Canceled)

8. (Currently Amended) A device comprising: An image processor for inputting image data with registration signals embedded therein, subjected to geometric transformation, and detecting registration signals from said inputted image data to perform registration processing, comprising:

registration signal detecting means for detecting one or more registration signals from said image data;

frequency property determining means for determining one or more frequency properties of the [[said]] image data;

geometric transformation identifying means for identifying a geometric transformation to which the [[said]] image data is subjected, ~~using said~~ based at least in part on the one or more detected registration signals and ~~determination results of said determination by the~~ one or more frequency properties property determining means; and

geometric transforming means for using the [[said]] identified geometric transformation to compute registered image data.

9. (Canceled)

10. (Currently Amended) A ~~tangible computer program product stored on a computer readable medium having computer-readable instructions stored thereon, the instructions comprising: embodying a program which when executed on a computer, performs an image processing method of inputting image data with registration signals embedded therein, subjected to geometric transformation, and detecting registration signals from said inputted image data to perform registration processing, the program comprising:~~

instructions to detect program codes for a registration signal detecting step of detecting one or more registration signals from [[said]] image data;

instructions to determine one or more program codes for a frequency property determining step of determining frequency properties of the [[said]] image data;

instructions to identify a program codes for a geometric transformation identifying step of identifying geometric transformation to which the [[said]] image data is subjected, ~~using said~~

based at least in part on the one or more detected registration signals and determination results of said determination in the one or more frequency properties property determining step; and

instructions to use the program codes for a geometric transforming step of using said identified geometric transformation to compute registered image data.

11. (Currently Amended) A device comprising: computer data signal embodied in a computer-readable medium, and being processed by a computer to perform an image processing method of inputting image data with registration signals embedded therein, subjected to geometric transformation, and detecting registration signals from said inputted image data to perform registration processing, comprising:

a memory configured to store image data; and

a processor operatively coupled to the memory and configured to:

detect one or more code signals for use in a registration signal detecting step of detecting registration signals from the [[said]] image data;

determine one or more code signals for use in a frequency property determining step of determining frequency properties of the [[said]] image data;

identify a code signals for use in a geometric transformation identifying step of identifying geometric transformation to which the [[said]] image data is subjected, using said extracted based at least in part on the one or more registration signals and determination results of said determination in the one or more frequency properties property determining step; and

use the code signals for use in a geometric transforming step of using said identified geometric transformation to compute registered image data.

12-14. (Canceled)

15. (Currently Amended) A ~~signal processing method for determining a geometric transformation applied to a media signal, the method comprising:~~

~~using a programmed computer to perform the acts of:~~

~~transforming, with a processor of a computing device, a [[the]] media signal into a frequency domain to produce one or more frequency components of the media signal;~~

~~detecting an embedded signal in the one or more frequency components;~~

~~based on the detecting, determining one or more geometric transformation parameters defining a geometric transformation of the media signal; and~~

~~using the one or more geometric transformation parameters to transform the media signal.~~

16. (Currently Amended) The method of claim 15, wherein the one or more frequency components are computed using a Fourier transform.

17. (Currently Amended) The method of claim 15, further comprising including pre-filtering the media signal to attenuate noise relative to the embedded signal.

18. (Currently Amended) The method of claim 15, further comprising including performing a log sampling of the media signal.

19. (Currently Amended) The method of claim [[18]] 15, further comprising including performing a log-log sampling of the media signal.

20. (Currently Amended) The method of claim [[18]] 15, further comprising including performing a log-polar sampling of the media signal.

21. (Currently Amended) The method of claim 15, wherein the media signal comprises an electronic signal representing audio or image signals stored in a memory.

22. (Currently Amended) The method of claim 21, wherein the image signals comprise video.

23. (Currently Amended) A tangible computer readable medium having computer-readable instructions stored thereon, the instructions comprising: on which is stored instructions, which when executed by a computer, perform the method of claim 15:

instructions to transform a media signal into a frequency domain to produce one or more frequency components of the media signal;

instructions to detect an embedded signal in the one or more frequency components;

instructions to determine, based on the detecting, one or more geometric transformation parameters defining a geometric transformation of the media signal; and

instructions to use the one or more geometric transformation parameters to transform the media signal.

24. (New) A device comprising:

a memory configured to store a media signal; and

a processor operatively coupled to the memory and configured to:

transform the media signal into a frequency domain to produce one or more frequency components of the media signal;

detect an embedded signal in the one or more frequency components;

determine, based on the detecting, one or more geometric transformation parameters defining a geometric transformation of the media signal; and

use the one or more geometric transformation parameters to transform the media signal.